

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended): A multilayer structure comprising, in this order:
 - a) a first layer (1) comprising a polyamide (A) or a polyamide (A)/polyolefin (B) blend having a polyamide matrix;
 - b) optionally, a tie layer (2a);
 - c) a polymeric layer (2) wherein the polymer ~~comprises~~ consists of a graft copolymer having polyamide blocks, said graft copolymer comprising a polyolefin backbone and at least one polyamide graft wherein:
 - the grafts are attached to the polyolefin backbone by the residues of an unsaturated monomer (X) having a functional group capable of reacting with a polyamide having an amine end group;
 - the residues of said unsaturated monomer (X) being attached to the backbone by grafting or copolymerization via its double bond; and
 - the average number of moles of unsaturated monomer X attached to the polyolefin backbone is 1.3 to 7 moles per mole of chain;
- ~~the layers~~ layer (1), optionally layer (2a), and layer (2) being successive and adhering to one another in their respective contact region.
2. (Previously Presented): A structure according to Claim 1, further comprising a polyamide or a polyolefin layer (3), superposed on layer (2), and optionally further comprising a tie layer (3a) placed between layer (2) and layer (3).
3. (Previously Presented): A structure according to claim 1, wherein said polyolefin backbone comprises an ethylene/alkyl(meth)acrylate copolymer.

4. (Previously Presented): A structure according to claim 1, in which X is an unsaturated carboxylic acid anhydride.

5. (Previously Presented): A structure according to claim 1, wherein said polyolefin backbone is chosen from ethylene/maleic anhydride copolymers and ethylene/alkyl(meth)acrylate/maleic anhydride copolymers.

6. (Previously Presented): A structure according to claim 1, wherein said structure is in the form of a tank, container, bottle, multilayer film, or tube.

7. (Previously Presented): A structure according to Claim 6, wherein layer (2) forms the inner layer intended to be in contact with the stored or transported fluid.

8. (Previously Presented): A structure according to Claim 1, wherein said structure is in the form of a tube for use in a cooling circuit for an internal combustion engine in which the layer (2) forms the inner layer of said tube, said inner layer intended to be in contact with the transported fluid.

9. (Cancelled);

10. (Previously Presented): A multilayer structure according to Claim 1, comprising said tie layer (2a).

11. (Previously Presented): A structure according to claim 2, comprising said tie layer (3a).

12. (Previously Presented): A structure according to claim 10, further comprising a polyamide or a polyolefin layer (3) superposed on layer (2) and a tie layer (3a) placed between layer (2) and layer (3).

13. (Previously Presented): A structure according to claim 1, wherein said polyolefin backbone is a polyolefin homopolymer or copolymer.
14. (Previously Presented): A structure according to claim 1, wherein X is an unsaturated epoxide, an unsaturated carboxylic acid anhydride, an aliphatic glycidyl ester, an aliphatic glycidyl ether, an alicyclic glycidyl ester or an alicyclic glycidyl ether.
15. (Previously Presented): A structure according to claim 1, wherein the first layer (1) is formed from a polyamide (A)/polyolefin (B) blend having a polyamide matrix.
16. (Previously Presented): A structure according to claim 1, wherein said first layer is formed from PA-6/12, PA-6/6,6, PA-6, PA-6,6, PA-11 or PA-12.
17. (Previously Presented): A structure according to claim 10, wherein said tie layer comprises a functionalized polyolefin or a copolyamide.
18. (Previously Presented): A structure according to claim 11, wherein said tie layer between layer (2) and layer (3) comprises a functionalized polyolefin or a copolyamide.
19. (Withdrawn): A method comprising fabricating a tank, container, bottle, multilayer film, or tube, said method comprising shaping a multilayer structure according to claim 2 such that layer (3) forms the inner layer.
20. (Withdrawn): A method of fabricating a tube for use in a cooling circuit of an internal combustion engine, said method comprising shaping a multilayer structure according to claim 2 such that layer (2) comprises graft copolymers having amide blocks, and either said layer (2) or layer (3) forms the inner layer of the tube.
21. (Previously Presented): A structure according to claim 1, wherein said first layer (1) comprises a blend of a polyamide (A) and at least one copolymer having polyamide blocks and polyether blocks.

22. (Previously Presented): A structure according to claim 15, wherein the proportion of polyamide in the polyamide (A)/polyolefin (B) blend is between 40 and 75% by weight.
23. (Cancelled):
24. (Previously Presented): A structure according to claim 2, wherein said structure is in the form of a tank, container, bottle, multilayer film, or tube.
25. (Previously Presented): A structure according to claim 24, wherein layer (3) forms the inner layer of said structure, said inner layer intended to be in contact with the stored or transported fluid.
26. (Previously Presented): A structure according to claim 2, wherein said structure is in the form of a tube for use in a cooling circuit for an internal combustion engine, and wherein layer (3) forms the inner layer of said tube, said inner layer intended to be in contact with the stored or transported fluid.
27. (Previously Presented): A structure according to claim 1, wherein the tie layer (2a) is selected from functionalized polyolefins and copolyamides.
28. (Previously Presented): A structure according to claim 1, wherein the proportion of the polyolefin backbone to the proportion of the polyamide having an amine end group is 80/20 to 90/10.
29. (New): A structure according to claim 1, wherein the polymer of said polymeric layer (2) consists of said graft copolymer having polyamide blocks.
30. (New): A structure according to claim 1, wherein said polyamide having an amine end group has a molar mass of between 1,000 and 5,000 g/mol.

31. (New): A structure according to claim 1, wherein said graft copolymer having polyamide blocks has a nanostructured organization with polyamide lamellae having a thickness of between 10 and 50 nanometers.

32. (New): A structure according to claim 30, wherein said graft copolymer having polyamide blocks has a nanostructured organization with polyamide lamellae having a thickness of between 10 and 50 nanometers.

33. (New): A structure according to claim 29, wherein said polyamide having an amine end group has a molar mass of between 1,000 and 5,000 g/mol, and said graft copolymer having polyamide blocks has a nanostructured organization with polyamide lamellae having a thickness of between 10 and 50 nanometers.

34. (New): A multilayer structure comprising, in this order:

a) a first layer (1) comprising a polyamide (A) or a polyamide (A)/polyolefin (B) blend having a polyamide matrix;

b) optionally, a tie layer (2a);

c) a polymeric layer (2) wherein the polymer comprises a graft copolymer having polyamide blocks, said graft copolymer comprising a polyolefin backbone and at least one polyamide graft wherein:

- the grafts are attached to the polyolefin backbone by the residues of an unsaturated monomer (X) having a functional group capable of reacting with a polyamide having an amine end group;
- the residues of said unsaturated monomer (X) being attached to the backbone by grafting or copolymerization via its double bond; and
- said polyamide having an amine end group has a molar mass of between 1,000 and 5,000 g/mol;

layer (1), optionally layer (2a), and layer (2) being successive and adhering to one another in their respective contact region.

35. (New): A structure according to claim 34, wherein the polymer of said polymeric layer (2) consists of said graft copolymer having polyamide blocks.

36. (New): A multilayer structure comprising, in this order:

a) a first layer (1) comprising a polyamide (A) or a polyamide (A)/polyolefin (B) blend having a polyamide matrix;

b) optionally, a tie layer (2a);

c) a polymeric layer (2) wherein the polymer comprises a graft copolymer having polyamide blocks, said graft copolymer comprising a polyolefin backbone and at least one polyamide graft wherein:

- the grafts are attached to the polyolefin backbone by the residues of an unsaturated monomer (X) having a functional group capable of reacting with a polyamide having an amine end group;
- the residues of said unsaturated monomer (X) being attached to the backbone by grafting or copolymerization via its double bond; and
- graft copolymer having polyamide blocks has a nanostructured organization with polyamide lamellae having a thickness of between 10 and 50 nanometers;

layer (1), optionally layer (2a), and layer (2) being successive and adhering to one another in their respective contact region.

37. (New): A structure according to claim 36, wherein the polymer of said polymeric layer (2) consists of said graft copolymer having polyamide blocks.